

产品说明书
PRODUCT DESCRIPTION CHD型卧式多级离心泵



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上海河山泵业有限公司

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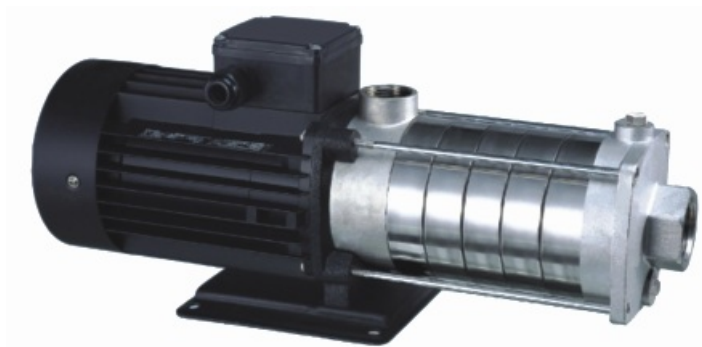


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Horizontal multistage pump

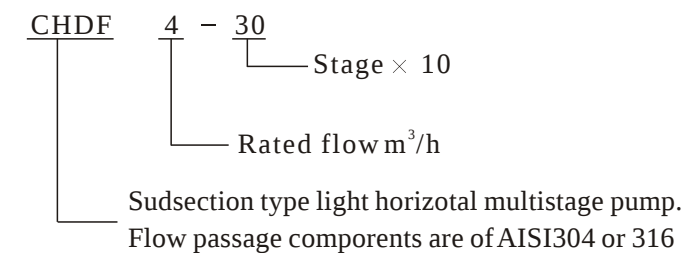
CHDF series subsection type horizontal multistage centrifugal pumps adopt axial inlet and radial outlet, attach with long shaft electric motor. All flow passages parts are made of stainless steel. The pump warm welcome for compact structure, high efficiency and reliable quality etc.

Application

CHDF series pumps are widely used in industrial and domestic field.

- Water supply or boosting
- Air-conditioning system or cooling system
- Industrial cleaning or washing system
- Water treatment system or Water purification system
- Aquiculture or Fertilizing
- Environmental protection application
- Other industrial or domestic applications

Definition of Model



Operation condition

- Medium temperature:
Normal temperature type: -15℃~+70℃
Hot water type: +70℃~+110℃
- Ambient temperature: up to +40℃
- Max. Operation pressure: 10bar
- Max. Inlet pressure is limited by the Max.
Operation pressure

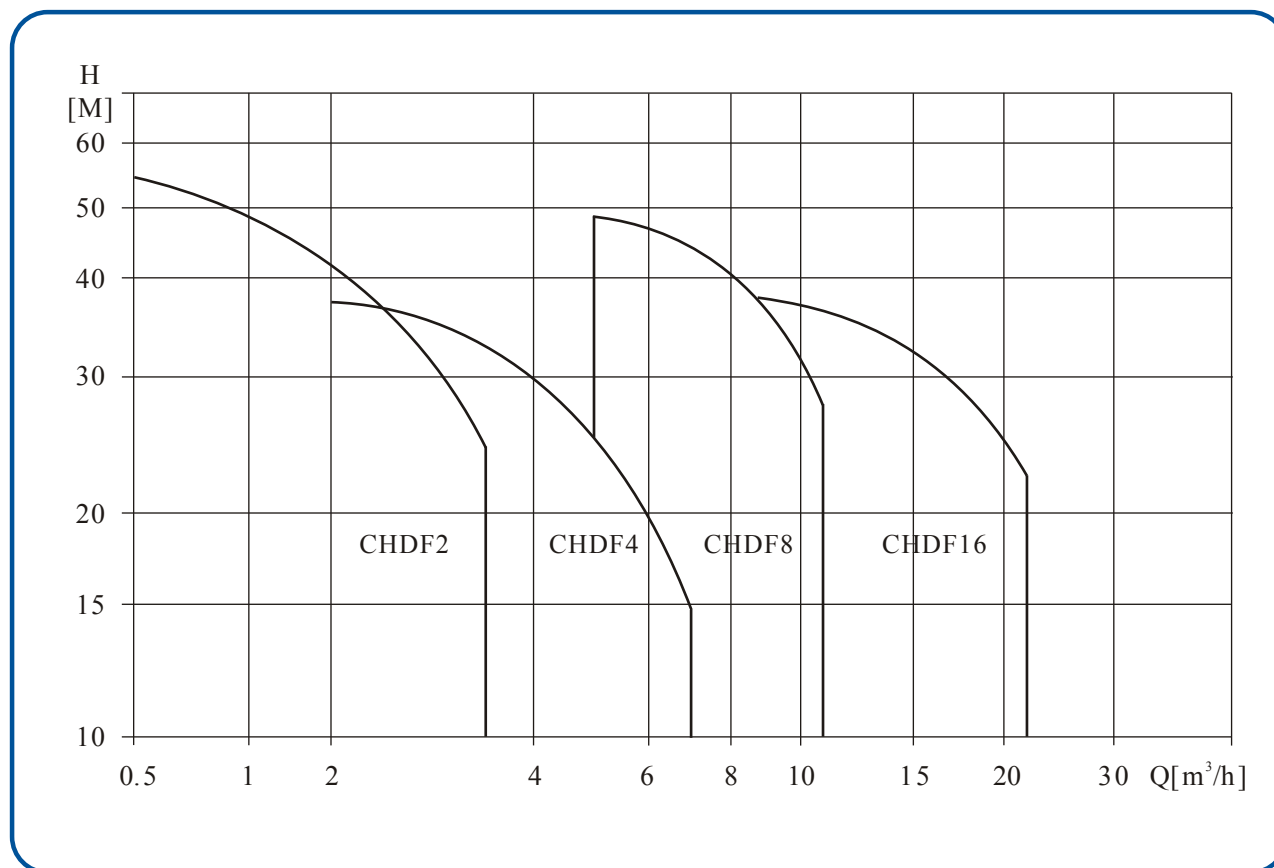
Electric motor

- Total-enclosed Fan-cooled two-pole standard motor
- Aluminum housing motor
- Protection class: IP55, insulation class: F
- Standard voltage: 50Hz: 1×220-240V
3×220-240V
3×380-415V

Medium

- Thin and clean, non-flammable and non-explosive medium without solid granules or fibres
- Mineral water, soft water, pure water, edible vegetable oil, and other slight chemical medium
- When the density or viscosity of medium is larger than that of water, it is necessary to choose a high-power driving motor
- Whether a specific medium is suitable for the pump depends on many factors, among which the most important ones are chlorine content, PH-value, temperature, solvent and oil content etc.

Performance scope



Curve conditions

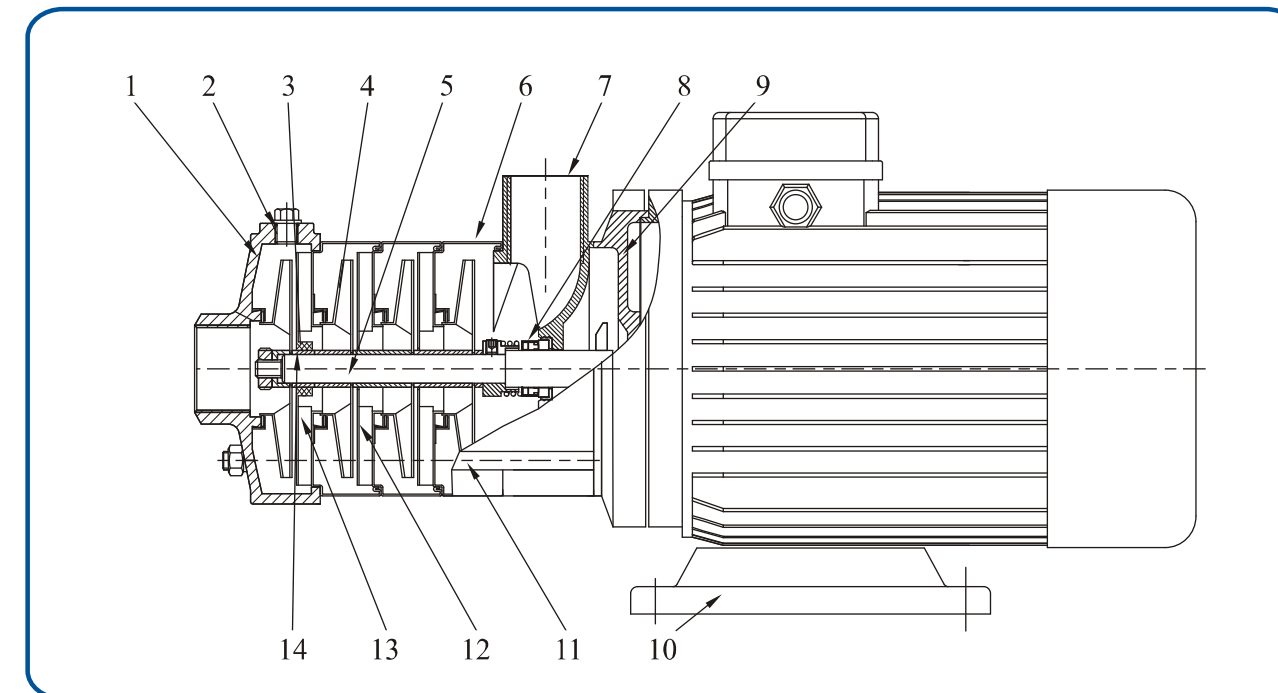
Following conditions are suitable for the performance curves shown above.

- All the performance curves are based on the measured value of a motor at a constant speed of 2900 rpm.
- Curve tolerance in conformity with ISO9906, appendix A.
- Measurement is done with 20°C air-free water, kinematic viscosity of 1mm²/sec.
- The operation of pump shall refer to the performance region described by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

Performance range

Type	CHDF2	CHDF4	CHDF8	CHDF16
Rated flow(m³/h)	2	4	8	16
Flow range(m³/h)	1~3.5	1.5~8	5~12	8~22
Max.pressure(bar)	5.5	4	5	4
Motor power(kW)	0.37~0.75	0.37~0.75	0.75~2.2	2.2~3
Temperature range(°C)	-15°C~+110°C			
Max.efficiency(%)	46	59	64	70

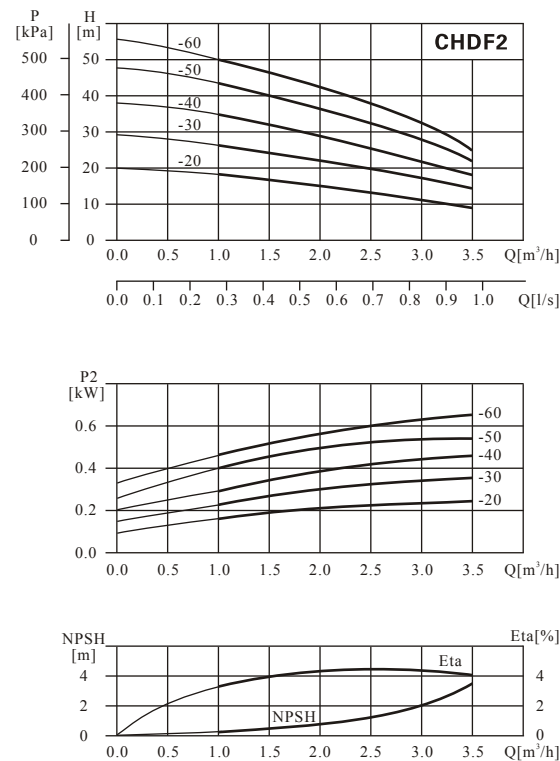
Section drawing of CHDF



Material of CHDF

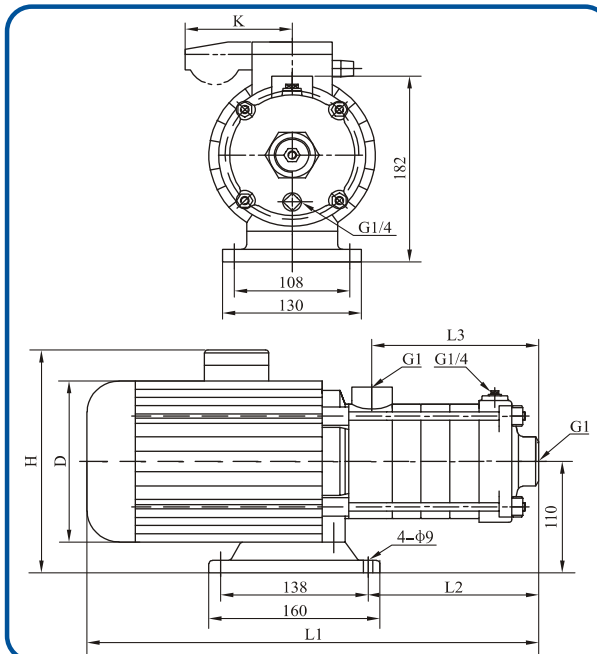
NO.	Name	Material	AISI/ASTM
2	Gag	Stainless steel	AISI304
3	Bearing	Tungsten carbide	
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
6	Water-out guide vane	Stainless steel	AISI304
8	Mechanical seal		
9	Motor end cover	Aluminum alloy	
10	Base frame	Cast iron	ASTM25B
11	Pull-rod	Stainless steel	AISI304
12	Guide vane	Stainless steel	AISI304
13	Support guide vane	Stainless steel	AISI304
14	Impeller separating sleeve	Stainless steel	AISI304
1	Water-in body	Stainless steel	AISI304
7	Water-out body	Stainless steel	AISI304
1	Water-out body	Cast iron	ASTM25B
7	Water-out body	Cast iron	ASTM25B

Performance curve



CHDF2

Installation sketch



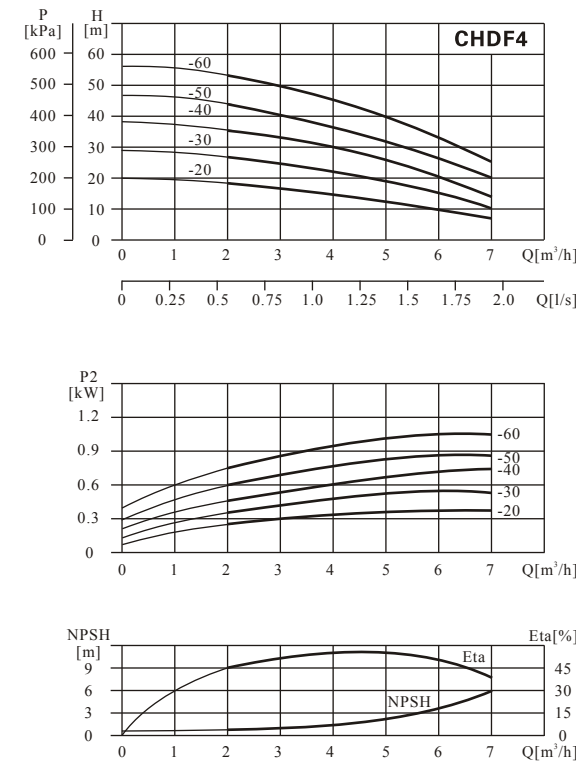
Size and weight

Motor	Model	L1(mm)	L2(mm)	L3(mm)	D(mm)	H(mm)	K(mm)	Weight (kg)
Three-phase/ single-phase	CHDF2-20	305	87	84	145	215/230	/96	15
	CHDF2-30	323	105	102	145	215/230	/96	15
	CHDF2-40	341	123	120	145	215/230	/96	15
	CHDF2-50	359	141	138	145	215/230	/96	15
	CHDF2-60	422	159	156	170	225/245	/100	17

Performance table

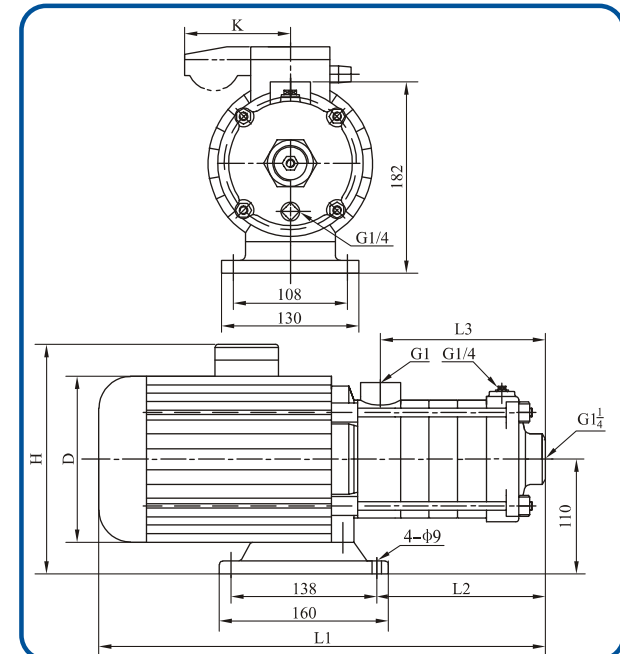
Model	Motor	Q(m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
CHDF2-20	0.37	H (m)	19	18	16	14	13	11	9
CHDF2-30	0.55		28	27	24	21	20	17	14
CHDF2-40	0.55		36	34	32	28	26	23	17
CHDF2-50	0.55		46	43	40	35	33	28	22
CHDF2-60	0.75		54	50	48	42	38	33	25

Performance curve



CHDF4

Installation sketch



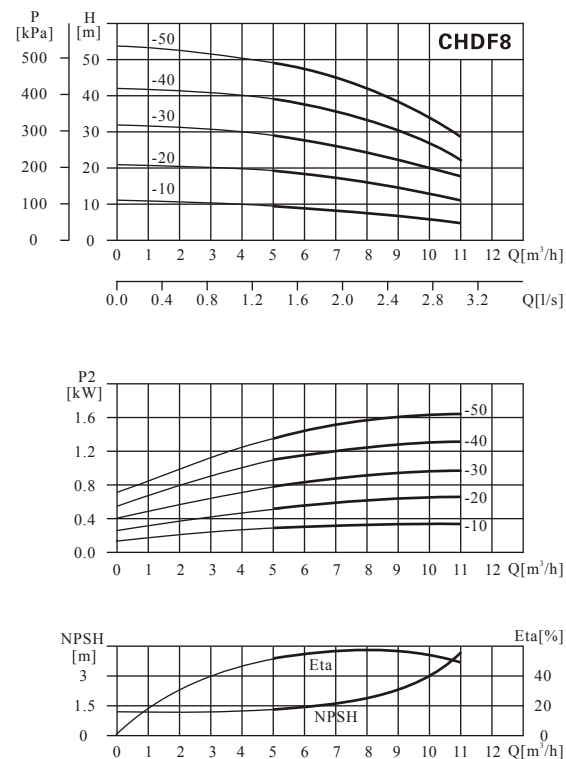
Size and weight

Motor	Model	L1(mm)	L2(mm)	L3(mm)	D(mm)	H(mm)	K(mm)	Weight (kg)
Three-phase/ single-phase	CHDF4-20	329	105	102	145	215/230	/96	15
	CHDF4-30	356	132	129	145	215/230	/96	15
	CHDF4-40	416	162	156	170	225/245	/100	17
	CHDF4-50	455	188	183	170	225/245	/100	17
	CHDF4-60	482	213	210	170	225/245	/100	17

Performance table

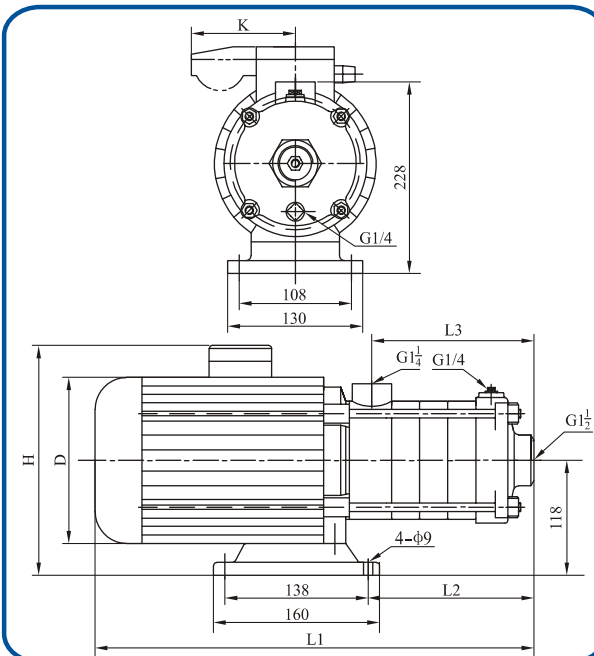
Model	Motor	Q(m³/h)	1	2	3	4	5	6	7
CHDF4-20	0.55	H (m)	19	18	16	15	13	10	7
CHDF4-30	0.55		28	27	24	22	19	15	10
CHDF4-40	0.75		38	36	32	30	26	20	14
CHDF4-50	1.1		46	44	41	38	32	26	20
CHDF4-60	1.1		55	53	50	45	37	31	26

Performance curve



CHDF8

Installation sketch



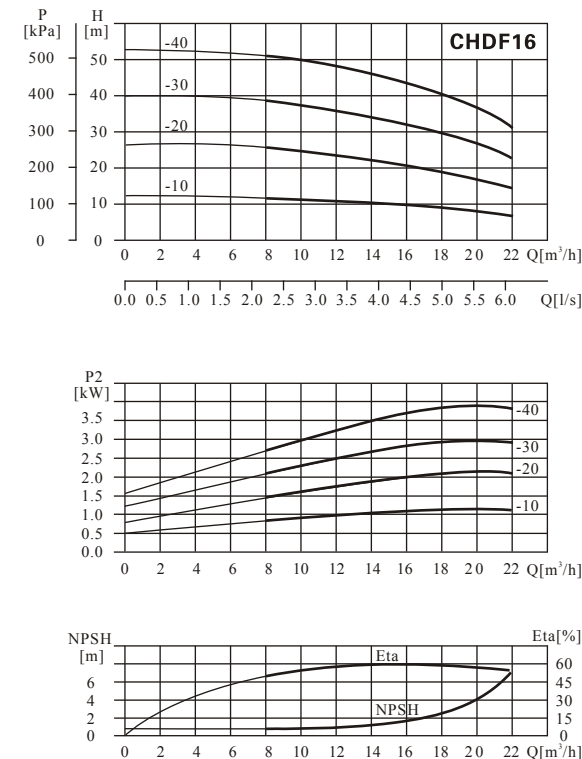
Size and weight

Motor	Model	L1(mm)	L2(mm)	L3(mm)	D(mm)	H(mm)	K(mm)	Weight (kg)
Three-phase/ single-phase	CHDF8-10	395	126	108	170	230/252	/100	20
	CHDF8-20	395	126	108	170	230/252	/100	20
	CHDF8-30	425	156	138	170	230/252	/100	25
	CHDF8-40	490	186	168	180	240/260	/100	28
	CHDF8-50	520	216	198	180	240/260	/100	30

Performance table

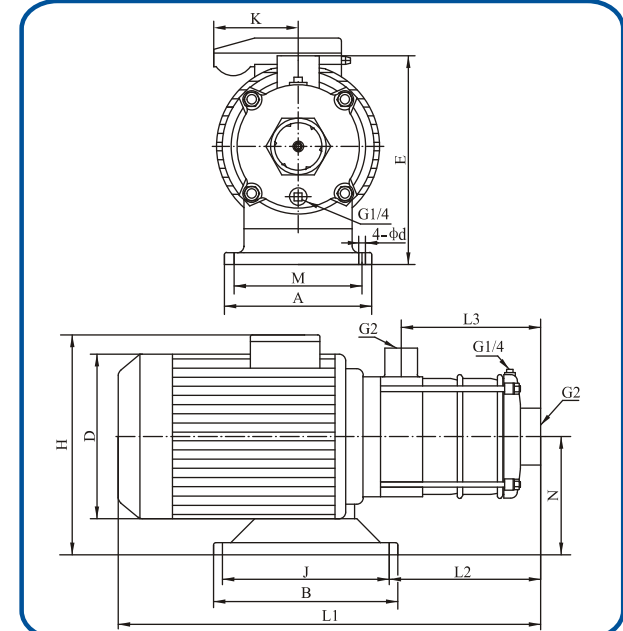
Model	Motor	Q(m³/h)	5	6	7	8	9	10	11
CHDF8-10	0.75	H (m)	9.5	9.3	9	8.5	7.5	6.5	5.5
CHDF8-20	0.75		19	18.5	18	17	15	13	11
CHDF8-30	1.1		29	28	27	25.5	22.5	20	17.5
CHDF8-40	1.5		39	38	36	34	30	26.5	22.5
CHDF8-50	2.2		49	47	45	42.5	38	33.5	28

Performance curve



CHDF16

Installation sketch



Size and weight

Motor	Model	Size(mm)													Weight (kg)
		L1	L2	L3	H	D	E	N	A	M	B	J	d	K	
Three-phase/ single-phase	CHDF16-10	423	151	126	230/265	180	227	117	130	108	160	138	9	/100	17.5
	CHDF16-20	455	151	126	240/270	180	228	118	130	108	160	138	9	/100	27
	CHDF16-30	561	196	171	270/	195	240	130	130	108	160	138	9		33
	CHDF16-40	621	339	216	270/	220	230	120	230	190	190	140	12		41

Performance table

Model	Motor	Q(m³/h)	8	10	12	14	16	18	20	22
CHDF16-10	1.1	H (m)	12.5	12	11.5	10.5	10	9	7.5	6.5
CHDF16-20	2.2		25.5	24	23	22	21	19	17	14.5
CHDF16-30	3		38.5	37	36	34	32	30	27	23
CHDF16-40	4		51.5	50.5	49	46	43	40.5	36	31.5